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| MODULE SPECIFICATION TEMPLATE |

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| MODULE DETAILS | | | | | | | | | | | | | | | | | | | | |
| **Module title** | **Fundamentals of Cardiac Diagnostic Procedures & Investigations** | | | | | | | | | | | | | | | | | | | |
| **Module code** | MDM136 | | | | | | | | | | | | | | | | | | | |
| **Credit value** | 20 | | | | | | | | | | | | | | | | | | | |
| **Level**  Mark the box to the right of the appropriate level with an ‘X’ | Level 4 |  | | Level 5 | | |  | Level 6 | | | |  | | Level 7 | | | x | Level 8 |  | |
| Level 0 (for modules at foundation level) | | | | | | | | | | |  | |  | | | | | | |
| ***Entry criteria for registration on this module*** | | | | | | | | | | | | | | | | | | | | |
| **Pre-requisites**  Specify in terms of module codes or equivalent | This programme is open to post-registration doctors and qualified practitioners in any profession allied to medicine; those with a first degree will have a minimum of 2 years clinical practice; those without will have a minimum of 5 years post qualification practice in cardiology. | | | | | | | | | | | | | | | | | | | |
| **Co-requisite modules**  Specify in terms of module codes or equivalent |  | | | | | | | | | | | | | | | | | | | |
| ***Module delivery*** | | | | | | | | | | | | | | | | | | | | |
| **Mode of delivery** | Taught | |  | | Distance | | | |  | | Placement | | | | |  | Online | | |  |
|  | Other | |  | | | | | | | | | | | | | | | | | |
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| **Pattern of delivery** | Weekly | |  | | Block | | | | x | | Other | | | | |  | | | | |
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| **When module is delivered** | Semester 1 | | | |  | Semester 2 | | | | | | |  | | Throughout year | | | | |  |
| Other | |  | | | | | | | | | | | | | | | | | |
| **Brief description of module content and/ or aims**  Overview (max 80 words) | The module provides a basis for the student to develop a systematic and comprehensive understanding of - and skills in – cardiac investigations and diagnostic procedures. | | | | | | | | | | | | | | | | | | | |
| **Module team/ author/ coordinator(s)** | Dr Sean O’Nunain, Course and Module Leader  Mr John Anderson, Programme Leader  Ms Kristina Rudge, Course and Module Administrator | | | | | | | | | | | | | | | | | | | |
| **School** | Postgraduate Medicine, Division of Medical Education, BSMS | | | | | | | | | | | | | | | | | | | |
| **Site/ campus where delivered** | Falmer Campus, University of Brighton | | | | | | | | | | | | | | | | | | | |
| ***Course(s) for which module is appropriate and status on that course*** | | | | | | | | | | | | | | | | | | | | |
| **Course** | | | | | | | | | | **Status (mandatory/ compulsory/ optional)** | | | | | | | | | | |
| MSc Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |
| PgDip Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |
| PgCert Cardiology | | | | | | | | | | Mandatory | | | | | | | | | | |
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| MODULE AIMS, ASSESSMENT AND SUPPORT | | | |
| **Aims** | | This module aims to provide the student with the fundamental skills for understanding, interpreting and commissioning basic and complex diagnostic cardiac investigations. | |
| **Learning outcomes** | | By the end of the module the students will show:   * advanced knowledge and understanding of the techniques, indications, value and complications of commonly used cardiology investigations, * Be able to critically appraise test results and act on them accordingly * Demonstrate the ability to critically review and to interpret the literature on cardiac investigations in order to form valid conclusions and make informed choices. | |
| **Content** | | By the end of the module students will have a knowledge and understanding of:  ECG Investigations and their Interpretation  CXR for cardiac patients  CT and the Heart: Indications for CT, role of CTCAC, Anomalous coronaries,  Cardiac Magnetic Resonance (CMR)  Ultrasound: Role of Echocardiography, DSE & TOE  Nuclear: MIBI (rest and stress)/ SPECT and PET in special scenarios.  Investigations for Disrythmia/AF/Syncope  PPM: Interrogation of devices, Pacing modes, Basic PPM algorithms  Investigation of hypertension, Novel treatment for resistant hypertension  Invasive diagnostics  Pharmacotherapy and Diagnostic Pharmacological Agents | |
| **Learning support** | | Students are provided with an up to date set of websites, key documents and latest research articles on Student Central. | |
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| ***Teaching and learning activities*** | | | |
| **Details of teaching and learning activities** | | The programme will be delivered through lectures, whole and small group discussion and problem solving, student presentation, and individual tutorials. Student interaction and participation is encouraged in all forms of presentation.  Staff will provide direction within the lectures and seminars with much learner autonomy evident in the group work and student presentations. Teaching will be supported further by the use of CD-ROM, prepared notes, workbooks and all usual visual aids. | |
| **Allocation of study hours (indicative)**  Where 10 credits = 100 learning hours | | | **Study hours** |
| **SCHEDULED** | | This is an indication of the number of hours students can expect to spend in scheduled teaching activities including lectures, seminars, tutorials, project supervision, demonstrations, practical classes and workshops, supervised time in workshops/ studios, fieldwork, external visits, and work-based learning. | 30 |
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| **GUIDED INDEPENDENT STUDY** | | All students are expected to undertake guided independent study which includes wider reading/ practice, follow-up work, the completion of assessment tasks, and revisions. | 170 |
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| **PLACEMENT** | | The placement is a specific type of learning away from the University that is not work-based learning or a year abroad. |  |
| **TOTAL STUDY HOURS** | | | **200** |
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| ***Assessment tasks*** | | | |
| **Details of assessment for this module** | | A 90 minute written unseen exam  PLUS  A 2000-3000 word written assignment.  The pass mark is 50% for each component and students will have to pass both components to pass the module. | |
| **Types of assessment task[[1]](#footnote-1)**  Indicative list of summative assessment tasks which lead to the award of credit or which are required for progression. | | | **% weighting**  (or indicate if component is pass/fail) |
| **WRITTEN** | | Written exam | 50% |
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| **COURSEWORK** | | Written assignment | 50% |
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| **PRACTICAL** | | Oral assessment and presentation, practical skills assessment, *set exercise* |  |
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| EXAMINATION INFORMATION | | | | |
| **Area examination board** | Postgraduate Medicine, Division of Medical Education, BSMS | | | |
| Refer to Faculty Office for guidance in completing the following sections | | | | |
| ***External examiners*** | | | | |
| **Name** | | **Position and institution** | **Date appointed** | **Date tenure ends** |
| Dr Nicholas Gall MSc MD FRCP | | Consultant Cardiologist  (Arrhythmias and Neurocardiology)  Honorary Senior Lecturer, KCL | February 2014 | February 2018 |
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| QUALITY ASSURANCE | | | | | |
| **Date of first approval**  Only complete where this is not the first version |  | | | | |
| **Date of last revision**  Only complete where this is not the first version |  | | | | |
| **Date of approval for this version** |  | | | | |
| **Version number** | 1 | | | | |
| **Modules replaced**  Specify codes of modules for which this is a replacement | MDM02 Cardiac Investigations | | | | |
| **Available as free-standing module?** | | Yes | x | No |  | |

1. Set exercises, which assess the application of knowledge or analytical, problem-solving or evaluative skills, are included under the type of assessment most appropriate to the particular task. [↑](#footnote-ref-1)